

River Protection Project Management Summary Schedule

	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24 – FY33	FY34 – FY43	FY44 – FY53	
EXTERNAL CONSTRAINTS	<div><div>Consent Decree Approved Authorization To Proceed with BNFL Design (215)</div><div>WA State Issue - Apprv Allowable Leak Loss During SST Retrieval (E20)</div><div>WA State Issue Permits - Apprv W-520 Project RCRA (Part B) (E18) WA State Issue Permits - Apprv Canister Stor Bldg (Part B) & Bldg Air (E19) WA State Issue - Apprv RCRA Work Plan for Closure 1st SST Farm (E26) WA State Issue Permit - Apprv of PHMC LERF/ETF Air, Water, & RCRA Modification (E16) DOE HQ Publish Supplement to TWRS EIS ROD – Cesium & Strontium Capsules (E33) DOE Issue Determination - Residual Waste Classif (E28) DOE HQ Issue Decision - SST Farm Closure PA (E29) DOE HQ Publish - SST Farm Closure EIS ROD (E25) WA State Issue - Apprv Closure Modif 1st SST (Part A) (E27) IHLW Disposal Capability Available (E30) Compl Characterization Program (9/30/24) (77)</div></div>																															
STORE WASTE																																
Interim Stabilization	<div>IS Pump 511Kgal Waste (167)</div> <div>Reduce Total Organic Complexed Liquid to 38% of Total Vol of SSTs (176)</div> <div>Compl West Area Interim Stabilization (07)</div> <div>Reduce Total Organic Complexed Liquid to 5% of Total Vol of SSTs (175)</div> <div>SSTs (174)</div> <div>Compl East Area Interim Stabilization (05)</div> <div>Reduce Total Liquids to 2% of Total Vol of SSTs (173)</div> <div>Compl Interim Stabilization of all 29 SSTs (172)</div> <div>Compl Closeout SST Interim Stabilization (09)</div>																															
Tank Waste Characterization	<div>Compl Delivery of Information Requirements Identified in WIRD (717)</div> <div>Report Completion of Core Sampling to DNFSB (107)</div> <div>CHARACTERIZATION</div>																															
Safety Issue Resolution	<div>Resolve Criticality Safety Issue (103)</div> <div>FSAR Implemented</div> <div>AB Implemented</div> <div>Resolve High Heat Safety Issue (108)</div> <div>Resolve Organic Safety Issue (109)</div> <div>Resolve Flammable Gas Safety Issue in SY-101 (106)</div> <div>Mitigate/Resolve Safety Issues for High Priority Watch List Tanks (03)</div> <div>Compl Transition of Authorization Basis to Waste Disposal Operations (305)</div>																															
Tank Waste Operations	<div>Deploy SY-101 MMA</div> <div>W-008 Vent Sys Operational</div> <div>Cross-Site Transfer Sys Operational</div> <div>ISMS Implemented</div> <div>Pump SY-101</div> <div>Compl DST Space Evaluation (743)</div> <div>Compl DST Space Evaluation (744)</div> <div>Compl DST Space Evaluation (745)</div> <div>Compl Tank Waste Operations (9/28/35) (851)</div> <div>TANK WASTE OPERATIONS</div>																															
UNESCALATED BASELINE \$M	N/A	\$238	\$177	\$198	\$187	\$135	\$122	\$107	\$82	\$73	\$68	\$89	\$83	\$68	\$63	\$74	\$68	\$70	\$71	\$68	\$70	\$69	\$67	\$69	\$65	\$65	\$69	\$59	\$402	\$40	-0-	
INFRASTRUCTURE																																
UNESCALATED BASELINE \$M	N/A	\$6	\$6	\$6	\$11	\$15	\$6	\$7	\$15	\$10	\$5	\$24	\$24	\$28	\$46	\$56	\$36	\$62	\$80	\$80	\$80	\$80	\$80	\$80	\$80	\$75	\$66	\$66	\$441	-1-	-0-	
TREAT WASTE	<div>Submit to ORP RCRA Application for Treatment (233)</div> <div>Constr Power to WTC (198)</div> <div>Compl Infrast for WTP Const (11)</div> <div>Liquid Effluent Facilities (Non-Rad) (278)</div> <div>Site Development/Roads(195)</div> <div>Clearing and Grubbing WTC Site (192)</div> <div>Operations Power to WTC (275)</div> <div>INFRASTRUCTURE OPERATION</div>																															
Pretreatment Facility	<div>PRETREATMENT FACILITY</div> <div>1st Concrete (965)</div> <div>Design Comp (967)</div> <div>Compl Design (936)</div> <div>Compl Const (951)</div> <div>Compl ATP (987)</div> <div>Const Compl (988)</div> <div>Start WTP Const (13)</div> <div>Compl Design (936)</div> <div>Compl Const (951)</div> <div>Compl ATP (987)</div> <div>Const Compl (988)</div> <div>Start LAW Pretreat (920)</div> <div>Start LAW Vitrification (977)</div> <div>Start Hot Comm -PT (958)</div> <div>Start Integ Hot Comm (977)</div> <div>Start Integ Hot Comm (982)</div> <div>PT-Compl Integ Hot Comm (17)</div> <div>LAW Vit-Compl Integ Hot Comm (21)</div> <div>HLW Vit-Compl Integ Hot Comm (25)</div>																															
LAW Vitrification Facility	<div>LAW VITRIFICATION FACILITY</div> <div>1st Concrete (985)</div> <div>Compl Design (986)</div> <div>Compl ATP (987)</div> <div>Const Compl (988)</div> <div>Start LAW Pretreat (920)</div> <div>Start LAW Vitrification (977)</div> <div>Start Hot Comm -PT (958)</div> <div>Start Integ Hot Comm (977)</div> <div>Start Integ Hot Comm (982)</div> <div>PT-Compl Integ Hot Comm (17)</div> <div>LAW Vit-Compl Integ Hot Comm (21)</div> <div>HLW Vit-Compl Integ Hot Comm (25)</div>																															
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Initial Quantity (Phase 1) Waste Pretreatment and Vitrification	<div>INITIAL QUANTITY LAW PRETREATMENT AND VITRIFICATION</div> <div>INITIAL QUANTITY HLW PRETREATMENT AND VITRIFICATION</div> <div>Start LAW Pretreat (920)</div> <div>Start LAW Vitrification (977)</div> <div>Start Hot Comm -PT (958)</div> <div>Start Integ Hot Comm (977)</div> <div>Start Integ Hot Comm (982)</div> <div>PT-Compl Integ Hot Comm (17)</div> <div>LAW Vit-Compl Integ Hot Comm (21)</div> <div>HLW Vit-Compl Integ Hot Comm (25)</div>																															
INITIAL QUANTITY UNESCALATED BASELINE \$M	N/A	\$0	\$0	\$0	\$394	\$227	\$552	\$872	\$702	\$628	\$461/\$35*	\$209/\$71**	\$170/\$78*	\$109/\$78*	\$50/\$88*	\$170/\$193*	\$6/\$211*	\$6/\$211*	\$6/\$211*	\$6/\$212*/\$5*	\$6/\$153*/\$23*	\$6/\$51*/\$2*	\$6/\$9*	\$6/\$35*	\$6/\$48*	\$6/\$19*	\$6/\$0	\$6/\$0	\$30/\$0	-0-	-0-	
Balance of Mission (Phase 2) Waste Pretreatment and Vitrification Facility	<div>BALANCE OF MISSION PRETREATMENT/VITRIFICATION FACILITY</div> <div>Complete Definition of Approach for Balance of Mission (571)</div> <div>BALANCE OF MISSION LAW/HLW PRETREATMENT AND VITRIFICATION</div> <div>Compl Vitrification of Hanford LAW/HLW (87) (12/31/28)</div> <div>Compl Balance of Mission Facility Deactivation (87) (Date TBD)</div>																															
UNESCALATED BOM \$M	N/A	-0-	-0-	-0-	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,037	\$1,026	\$1,623	\$1,605	\$1,586	\$861	\$851	\$380	\$376	\$372	\$367	\$363	\$358	\$1,014	-0-	-0-	
RETRIEVE WASTE																																
TANK TRANSFER SYSTEM ENGINEERING, DESIGN, CONSTRUCTION TURNOVER	<div>Start AP-101 Transf Pump Replace</div> <div>Compl AZ-102 (524)</div> <div>Compl AZ-101 (247)</div> <div>Compl AP-101 (254)</div> <div>Compl C-104 (531)</div> <div>Compl C-104 Retrieval Demo(532)</div> <div>Compl AN-102 (430)</div> <div>Compl AN-101/AN-104 (428)</div> <div>Compl AP-102/AP-104 (426)</div> <div>Compl AY-102 (523)</div> <div>Compl AY-101 (522)</div> <div>Compl AN-105 (431)</div> <div>Compl SY-102 (521)</div> <div>Compl SY-101 (433)</div>																															
Initial Quantity (Phase 1)	<div>Compl Readiness-to-Proceed - 1</div> <div>Retrieve C-106 into AY-102</div> <div>WASTE SAMPLING, ANALYSIS, DOE APPROVAL</div> <div>Start Certification (244)</div> <div>Compl AP-101 (252)</div> <div>Compl AZ-101 (250)</div> <div>Compl AZ-102 (520)</div> <div>Complete AY-102/C-106 (519)*</div> <div>Compl AN-102 (436)</div> <div>Compl AN-107 (439)</div> <div>Compl AY-101/C-104 (518)</div> <div>Compl SY-101 (441)</div> <div>WASTE TRANSFER TO WTC FACILITIES</div> <div>Compl AP-101/AZ-101 Waste Transf (15)</div>																															
TANK FARM TRANSFER SYSTEM UPGRADES																																
SITE TRANSFER SYSTEM UPGRADES	<div>Compl 200 East Area Constr (259)</div> <div>Compl Cross-Site Slurry Line (260)</div> <div>Compl Site System Upgrades (356)</div>																															
TANK TRANSFER SYSTEM ENGINEERING, DESIGN, CONSTRUCTION TURNOVER	<div>Compl Pipeline - AN Farm to New AZ Valve Pit (355)</div> <div>Compl Master Pump Shutdown Upgrade (261)</div> <div>Compl S-112 (388)</div> <div>Compl S-106 (485)</div> <div>Compl AW-103 (549)</div> <div>Compl SY-103 (480)</div> <div>Compl AW-104 (LAW) (481)</div> <div>Compl AW-104 (HLW) (552)</div> <div>Compl AP-106 (479)</div> <div>Compl S-106 (478)</div> <div>Compl AP-105 (482)</div> <div>Compl AP-108 (483)</div>																															
Balance of Mission (Phase 2)	<div>WASTE SAMPLING, ANALYSIS, DOE APPROVAL</div> <div>Analysis (550)</div> <div>Compl C-107/AW-103 (551)</div> <div>Compl AW-104 (LAW) (481)</div> <div>Compl AW-104 (HLW) (552)</div> <div>Compl AP-106 (479)</div> <div>Compl S-106 (478)</div> <div>Compl AP-105 (482)</div> <div>Compl AP-108 (483)</div> <div>Start AW-104 (LAW) (474)</div> <div>Compl Retrieval of SSTs/IMUSTs (69)</div> <div>Compl Retrieval of DSTs (79) (9/30/26)</div>																															
TANK FARM TRANSFER SYSTEM UPGRADES	<div>Start AW-104 (LAW) (474)</div> <div>Compl Retrieval of SSTs/IMUSTs (69)</div> <div>Compl Retrieval of DSTs (79) (9/30/26)</div>																															
UNESCALATED BASELINE \$M	N/A	\$51	\$88	\$84	\$74	\$91	\$110	\$110	\$146	\$110	\$73	\$105	\$142	\$204	\$407	\$563	\$711	\$785	\$753	\$669	\$653	\$398	\$266	\$35	\$20	\$1	\$1	-0-	-0-	-0-	-0-	
DISPOSE WASTE																																
Immobilized LAW Disposal	<div>ILAW and IHLW PMPs</div> <div>IMMOBILIZED LAW DISPOSAL</div> <div>Compl W-520 Design (297)</div> <div>Start W-520 Constr (299)</div> <div>Compl W-520 Startup (306)</div> <div>Compl W-520 Constr (301)</div> <div>ILAW Disposal Capability Available (19)</div> <div>ILAW Disposal Operation</div> <div>Compl Initial Quantity ILAW Disposal (35)</div>																															
Immobilized HLW Disposal	<div>Submit Revised CSF Part A</div> <div>IMMOBILIZED HLW DISPOSAL</div> <div>Compl CSB Design (325)</div> <div>Start CSB Constr (330)</div> <div>Compl CSB Constr (335)</div> <div>Compl CSB Readiness (333)</div> <div>IHLW Disposal Capability Available (23)</div> <div>IHLW Disposal Operation</div> <div>Compl Initial Quantity IHLW Storage (41)</div> <div>First HLW Shipment to Repository (837) (7/30/36)</div> <div>Compl Balance of Mission IHLW Storage (89) (12/31/28)</div> <div>Complete IHLW Disposal (93) (9/30/46)</div>																															
UNESCALATED BASELINE \$M	N/A	\$5	\$11	\$5	\$8	\$14	\$15	\$21	\$25	\$50	\$78	\$38	\$29	\$81	\$94	\$129	\$178	\$132	\$162	\$105	\$177	\$272	\$317	\$278	\$186	\$195	\$134	\$95	\$268	\$44	\$8	
CLOSE FACILITY	<div>Compl Development of Spectra Gamma Logging Baseline for SST Farms (367)</div> <div>Submit Field Investigative Report for WMA S-SX (372)</div> <div>Submit Field Investigative Report for B-BX-BY (374)</div> <div>Submit Field Investigative Report for T-TX-TY (378)</div> <div>Compl 244-AR Vault Stabilization Activities (686)</div> <div>Phase I RFI (379)</div> <div>TANK FARM VADOSE ZONE/TANK CLOSURE</div> <div>Compl Closure of DST Farms (95) (9/27/32)</div> <div>Compl Closure of all SST Farms (73) (9/30/24)</div> <div>Compl Closure of RPP (9) (9/30/4)</div>																															
UNESCALATED BASELINE \$M	-0-	-0-	-0-	-0-	\$8	\$14	\$14	\$10	\$10	\$19	\$11	\$14	\$14	\$15	\$4	\$1	\$1	\$1	\$1	\$1	\$5	\$5	\$5	\$20	\$21	\$27	\$26	\$31	\$226	\$69	\$60	
MANAGE PROJECT	<div>Submit Tank Waste Treatment Alternatives</div>																															
UNESCALATED BASELINE \$M	N/A	\$31	\$40	\$36	\$44	\$127	\$125	\$148	\$145	\$127	\$131	\$125	\$132	\$121	\$97	\$73	\$54	\$46	\$45	\$54	\$55	\$64	\$82	\$89	\$91	\$88	\$95	\$94	\$904	\$82	-0-	
TOTAL TFC UNESCALATED BASELINE \$M	N/A	\$331	\$322	\$329	\$332	\$396	\$398	\$409	\$429	\$395	\$372	\$401	\$430	\$523	\$717	\$902	\$1,054	\$1,102	\$1,118	\$983	\$1,047	\$894	\$823	\$577	\$469	\$387	\$351	\$2,271	\$236	\$68		
RISK MITIGATION/ACCELERATION \$M	N/A	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	\$138	\$325	\$328	\$296	\$151	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	
TOTAL RPP UNESCALATED BASELINE \$M	N/A	\$331	\$322	\$329	\$726	\$622	\$944	\$1,275	\$1,125	\$1,017	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$2,296	\$2,291	\$2,936	\$2,934	\$2,777	\$2,084	\$1,798	\$1,212	\$988	\$889	\$843	\$750	\$709	\$3,285	\$236	\$68	
WASTE MANAGEMENT AND LABORATORY SUPPORT PHMC																																
(RL Funded) UNESCALATED BASELINE \$M	N/A	-0-	-0-	\$39	\$45	\$46	\$49	\$51	\$51	\$49	\$47	\$103	\$108	\$102	\$103	\$121	\$120	\$111	\$111	\$110	\$103	\$96	\$94	\$94	\$90	\$92	\$91	\$96	-0-	-0-		
TOTAL UNESCALATED BASELINE \$M	N/A	\$331	\$322	\$368	\$771	\$668	\$993	\$1,326	\$1,176	\$1,066	\$1,047	\$1,103	\$1,108	\$1,102	\$1,103	\$2,417	\$2,411	\$3,047	\$3,045	\$2,887	\$2,187	\$1,894	\$1,306	\$1,082	\$979	\$935	\$842	\$800	\$4,081	\$236	\$68	

The **Orange** numbers represent Treatment Plant Operations to be added by pending BCR
 The **Green** numbers represent deactivation of the treatment plant to be added by pending BCR
 The **Blue** numbers represent the decontamination/decommissioning of the treatment plant to be added by pending BCR
 Infrastructure dollars represent the current FY 01 TW08 PBS vs costs in new WBS structure for this display only

DATE	8/30/01	DOE/ORP-2001-14 REV 0	Source Files: PS01, B301
<p align="center">U.S. DEPARTMENT OF ENERGY Office of River Protection (ORP)</p>			
PROJECT	River Protection Project		
<p align="center">RPP Management Summary Schedule</p>			
This document is approved for reporting and statusing RPP Work			